

CATALOGUE OF THE CRUSTACEANS IN THE MUSEUM OF THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA.

BY DR. BENJ. SHARP.

According to the catalogue of Professor Lewis R. Gibbes, of Charleston, S. C., published in the Proceedings of the Academy for 1850 (p. 22 to 30), the collection of crustacea contained one hundred and seventy-five (175) species.

In 1851, additions were made by Mr. McAndrews and Messrs E. & C. Wilson. In this year Dr. T. B. Wilson presented the collection of Guérin-Méneville, consisting of 413 species (1,482 specimens). They were classified and catalogued by Dr. R. Bridges, and the collection now contained 980 species (2,054 specimens).

In 1852, Edward Wilson, Esq., presented 54 species from Great Britain, and Dr. T. B. Wilson presented 282 species of the Guérin Collection. About 64 species were presented during the year from M. J. Verreaux, of Paris, and Messrs E. Wilson, S. Ashmead, J. Le Conte and others.

In 1855, Mr. S. Ashmead presented 34 species.

In 1856, 65 species (358 specimens) were received from Messrs W. S. Wilson, S. Ashmead, Davidson and others.

In 1857, 15 species were received from Dr. W. Stimpson from the West Coast of America, and 30 species from Drs. W. S. W. Ruschenberger and Hammond and Mr. Pease.

In 1858, Mr. W. J. Taylor, Dr. J. L. Le Conte and others, presented 15 species, and Mr. Slack 22 species.

In the beginning of the year 1860 the collection contained about 1,000 species.

In 1861, the Smithsonian Institution presented 55 species, and G. Davidson 12.

In 1864, the Smithsonian Institution presented 62 species, mostly collected by Dr. Wm. Stimpson of the North Pacific Exploring Expedition.

In 1872, a collection was presented by Wm. M. Gabb, from San Domingo.

In 1873, a fine collection in alcohol from the Fiji Islands was presented by Mr. A. J. Garrett.

In 1875, many species were presented by Dr. Wm. H. Jones, of the United States Navy, and during this year the collection was

relabeled and mounted by Messrs C. F. Parker and G. W. Tryon, Jr.

Since 1875 but little has been done to the Carcinological Collection of the Academy and many specimens from want of care have been damaged. In 1878, Mr. J. S. Kingsley worked over the Crangonidae and some of the families of the Brachyura, and later Mr. Walter Faxon renamed the Astacidae of the collection.

A few species were added to the collection by the Bermuda and Mexican expeditions of the Academy.

During the last three or four years Mr. Frederick E. Stearns has added a number of specimens from the Bahamas and West Coast of the United States.

In the following catalogue the first number under a species refers to the tray or jar in which the specimen or specimens are placed; the second number, in brackets, to the number of specimens catalogued under the first number: *a*, meaning alcoholic and *d*, dried; thus (2*d*) means two dried specimens, and (*xa*) more than ten alcoholic specimens.

## STOMATOPODA.

### SQUILLIDAE Latreille.

#### GONODACTYLUS Latreille, 1825.

**G. EDWARDSII** Berthold, 1847.

*G. japonicus* DeHaan, 1849.

Habitat. Pacific coasts.

23. (1*d*) China. Dr. T. B. Wilson.

24. (1*d*) Chili. Dr. T. B. Wilson.

**G. FALCATUS** (Forskael, 1775).

*Cancer falcatus* Forskael, 1775.

*Squilla chiragra* Fabricius, 1793.

*G. chiragra* Latreille, 1825, and authors.

Habitat. All seas.

25. (3*d*) Bahamas. Dr. H. C. Wood, Jr.

26. (1*d*) Key West, Florida. S. Ashmead.

27. (2*d*) West Indies. Dr. Morton.

50. (8*a*) Garden Key, Florida. Smithsonian Institution.

51 & 52. (3*a* & 1*a*). No locality. Smithsonian Institution.

53. (1*a*) Bermuda. Heilprin Collection, 1888.

54. (*xa*) Tahiti. A. J. Garrett.

57. (5*a*) Lower California. W. N. Lockington.

111. (3*d*) Mauritius. Dr. T. B. Wilson.

**LYSIOSQUILLA Dana, 1852.**

*Coronis* Latreille, 1825 (name pre-occupied).

**L. GLABRIUSCULA** (Lamarek, 1818).

*Squilla glabriuscula* Lamarek, 1818.

*Squilla vittata* H. Milne-Edwards, 1837.

Habitat. Eastern coast of North America.

18. (1d) Key West, Florida. S. Ashmead.

37. (1a) Hilton Head, South Carolina. J. J. Craven.

49. (1a) No locality. Smithsonian Institution.

**L. MACULATA** (Fabricius, 1793).

*Squilla maculata* Fabricius, 1793.

*Cancer arenarius* Herbst, 1796.

Habitat. Indo-Pacific region.

19. (2d) Sandwich Islands. J. K. Townsend.

46. (1a) Oahu, Sandwich Islands. Dr. W. H. Jones.

**L. SCABRICAUDA** (Lamarek, 1818).

*Squilla scabricauda* Lamarek, 1818.

*Squilla hoeveni* Herklots, 1851.

*L. inornata* Dana, 1852.

Habitat. Eastern coast of America.

20 & 21. (1d & 2d) Key West, Florida. S. Ashmead.

22. (1d) Brazil. Dr. T. B. Wilson.

44. (2a) No locality. No donor's name.

45. (1a) West Indies. Dr. T. B. Wilson.

47. (1a) No locality. Dr. T. B. Wilson.

**PSEUDOSQUILLA Dana, 1852.**

**P. CERISII** (Roux, 1828).

*Squilla cerisii* Roux, 1828.

*Squilla broadbenti* Coco, 1833.

Habitat. Mediterranean.

30. (1a) Algiers. Guérin Collection.

**P. CILIATA** (Fabricius, 1793).

*Squilla ciliata* Fabricius, 1793.

*Squilla stylifera* Lamarek, 1818.

*P. stylifera* Dana, 1852.

*Squilla quadrispinosa*, Miers, 1880.

Habitat. Indo-Pacific region.

15. (5d) Sandwich Islands. Nuttall & Townsend.

16. (1d) Peru. Dr. W. S. W. Ruschenberger.

28. (1a) Mauritius. Guérin Collection.

29. (6a) Oahu, Sandwich Islands. Dr. W. H. Jones.

36. (2a) No locality. Smithsonian Institution.

55. (2a) Tahiti. A. J. Garrett.

P. LESSONII (Guérin, 1830), (type No. 4).

*Squilla cerisii* Guérin, 1830.

*Squilla lessonii*, Guérin, 1830.

*Squilla spinifrons* Owen, 1832.

*Squilla monoceros* H. Milne-Edwards, 1837.

*P. marmorata* Lockington, 1877.

Habitat. Indo-Pacific region.

4. (1d) Mauritius. Guérin Collection (Guérin's type).

10, 11 & 12 (1d, 1a, 1d) Chili. Guérin Collection.

17. (1d) Peru. Dr. W. S. W. Ruschenberger.

P. MONODACTYLA (A. Milne-Edwards, 1878.)

*Squilla monodactyla* A. Milne-Edwards, 1878.

Habitat. Pacific region.

56. (1a) Lat. 6° North; Long. 166° West. Dr. W. H. Jones.

P. STYLIFERA (H. Milne-Edwards, 1837).

*Gonodactylus styliferus* H. Milne-Edwards, 1837.

Habitat. Pacific region.

13. (1d) Chili. Guérin Collection.

14. (1d) Sandwich Islands. J. K. Townsend.

58. (1a) Valpariso, Chili. Dr. W. S. W. Ruschenberger.

**SQUILLA Fabricius, 1798.**

including

*Chlorida* Edyoux & Souleyet, 1841 (name pre-occupied).

*Chloridella* Miers, 1880.

S. DESMARESTII Risso, 1816.

Habitat. Seas of Europe.

1. (4d) Mediterranean. Guérin Collection.

S. DUBIA. H. Milne-Edwards, 1837.

*S. mantis* Desmarest, 1825.

*S. rubrolineata* Dana, 1852.

Habitat. Eastern coast of America.

9. (1d) Trinidad, B. W. I. Dr. Samuel Lewis.

S. EMPUSA Say, 1818 (? No. 2 type).

Habitat. Atlantic region.

2. (3d) Rhode Island. W. E. Halloway (probably Say's type).

8. (1d) Gulf of Mexico. C. Bryan.

31. (1a) New Bedford, Mass. J. H. Thompson.

32. (1a) No locality. Smithsonian Institution.  
 33. (1a) Hilton Head, South Carolina. J. J. Craven.  
 34. (1a) Beaufort, North Carolina. E. D. Cope.  
 35. (1a) No locality. J. Walton.  
 39. (2a) South America. No donor's name.

S. MANTIS Latreille, 1802.

Habitat. European Seas.

6. (3d) Mediterranean. Guérin Collection.

S. NEPA Latreille, 1825.

- S. affinis* Berthold, 1847.  
*S. oratoria* DeHaan, 1849.  
*S. laevis* Hess, 1865.

Habitat. Indo-Pacific region.

3. (2d) No locality. No donor's name.  
 7. (3d) China. Dr. T. B. Wilson.  
 40 & 43. (3a & 2a) No locality. Smithsonian Institution.  
 41. (2a) Oahu, Sandwich Islands. Dr. W. H. Jones.  
 42. (1a) Malacca. Guérin Collection.

S. PRASINOLINEATA Dana, 1852.

- S. dufresnii* Miers, 1880.

Habitat. East coast of tropical America.

48. (1a) Silam, Yucatan. Mexican Expedition (*vide* Ives, 1891).

S. RAPHIDEA Fabricius, 1798.

- S. mantis* var. *B. major* Lamarek, 1818.  
*S. harpax* DeHaan, 1849.

Habitat. Indo-Pacific region.

5. (1d) India. Guérin Collection.  
 38. (1a) Malacca. Guérin Collection.

Numbers 101 to 110 inclusive, are alcoholic specimens of Stomatopod larvae collected by Dr. W. H. Jones in Central and Eastern Pacific, as far North as Latitude 50°.

## PENAEIDEA.

PENAEIDAE Sp. Bate, 1886.

PENAEUS Fabricius, 1798.

P. BRASILIENSIS Latreille, 1817.

- P. brevirostris* Kingsley, 1878.

Habitat. Atlantic region.

59. (xa) West coast of Florida. Heilprin Collection, 1886 (*vide* Ives, 1891).

60. (2a) St. Martin, D. W. I. Dr. J. van Rijgersma.  
 63. (5a) San Domingo, West Indies. W. M. Gabb.  
 64. (2a) Anclote Bay, Florida. Heilprin Collection, 1886 (*vide*  
 Ives, 1891.)  
 65. (1a) Sand Key, Florida. Heilprin Collection, 1886.  
 66. (2a) Cat Island, Bahamas. Smithsonian Institution.  
 69. (3a) Rio Janiero, Brazil. Dr. W. S. W. Ruschenberger.  
 78. (2a) San Domingo, West Indies. No donor's name.

**P. BRASILIENSIS AZTECUS** Ives, 1891. (No. 61 types.)

Habitat. East coast of Mexico.

61. (xa) Vera Cruz, Mexico. Mexican Expedition, 1890 (Ives'  
 type).  
 62. (1a) Vera Cruz, Mexico. Mexican Expedition, 1890.

**P. BREVICORNIS** H. Milne-Edwards, 1837 (No. 365 type).

Habitat. Indo-Pacific region.

365. (1d) Bombay, India. Guérin Collection (H. Milne-Edwards'  
 type).

**P. CANALICULATUS** (Olivier, 1811).

- Palaemon canaliculatus* Olivier, 1811.  
*P. marginatus* Randall, 1839.  
*P. plebejus* Hess, 1865.

Habitat. Indo-Pacific region and Red Sea.

70. (1a) Sandwich Islands. Nuttall & Townsend.  
 71. (4a) Mauritius. Guérin Collection.

**P. CRASSICORNIS** H. Milne-Edwards, 1837 (? No. 366 type.)

Habitat. Indian Region.

366. (1d) Bombay, India. Guérin Collection.

**P. INDICUS** H. Milne-Edwards, 1837.

Habitat. Indian region.

77. (1a) No locality. Smithsonian Institution.

**P. KERATHURUS** (Forskael, 1775).

- Cancer kerathurus* Forskael, 1775.  
*Palaemon sulcatus* Olivier, 1811.  
*P. trisulcatus* Leach, 1815.  
*Alpheus caramote* Risso, 1816.  
*P. caramote* Desmarest 1825, and authors.

Habitat. Seas of Europe.

72. (2a) Greece. Dr. T. B. Wilson.  
 363. (1d) Algiers. Guérin Collection.

**P. MEMBRANACEUS** Risso, 1816.*P. longirostris* Lucas, 1849 (No. 145, probably type).*P. bocagei* Johnson, 1863.

Habitat. Mediterranean.

145. (1a) Algiers. Guérin Collection (? Lucas' type of *P. longirostris*).**P. MONOCEROS** Fabricius, 1798.

Habitat. Indian region.

360. (1d) Bombay, India. Guérin Collection.

**P. MONODON** Fabricius, 1798.

Habitat. Indo-Pacific region.

74. (1a) Mauritius. Guérin Collection.

**P. SETIFERUS** (Linnaeus, 1766).*Cancer setiferus* Linnaeus, 1766.*Palaemon setiferus* Olivier, 1811.*P. orbignyianus* Latreille, 1817.*P. fluviatilis* Say, 1817.

Habitat. East coast of America.

67. (2a) Hilton Head, South Carolina. J. J. Craven.

68. (2a) New Orleans, Louisiana. Dr. Walker.

75 &amp; 76. (1a &amp; 2a) No locality. Smithsonian Institution.

361. (1d) Cuba, West Indies. Guérin Collection.

362. (2d) Charleston, South Carolina. Dr. W. Blanding.

**P. STYLIROSTRIS** Stimpson, 1871.*P. occidentalis* Streets, 1871 (No. 73 type).

Habitat. East Coast of Central America.

73. (xa) Panama. McNeil Expedition (Streets' type).

**P. VILLOSUS** Guérin, 1830 (No. 79 type).

Habitat. Pacific region.

79. (1a) New Ireland. Guérin Collection (Guérin's type).

**SICYONIA** H. Milne-Edwards, 1830.**S. SCULPTA** H. Milne-Edwards, 1830.

Habitat. Atlantic region and Mediterranean.

100. (1a) Hilton Head, South Carolina. J. J. Craven.

**SERGESTIDAE** Sp. Bate, 1886.**SERGESTES** H. Milne-Edwards 1830.**S. ARCTICUS** Kroeyer, 1855.

Habitat. North Atlantic.

112. (1a) Lat. 40° 16' 30" North; Long. 67° 26' 15" West—828 fathoms. Smithsonian Institution.

**EUCYPHIDEA.****PASIPHAEIDAE** Sp. Bate, 1886.**PASIPHÆA** Savigny, 1818.

**P. SIVADO** (Risso, 1816).

*Alpheus sivado* Risso, 1816.

*P. savignyi* H. Milne-Edwards, 1837.

*P. brevirostris* H. Milne-Edwards, 1837.

Habitat. West coast of Europe and Mediterranean.

364. (1d) Nice, France. Guérin Collection.

**ATYIDAE** Kingsley, 1878.**ATYA** Leach, 1817.

*Atys* Leach, 1815 (name pre-occupied).

including

*Atyoida* Randall, 1839.

**A. BISULCATA** (Randall, 1839) (No. 231 type).

*Atyoida bisulcata* Randall, 1839.

Habitat. Sandwich Islands.

162. (xa) Oahu, Sandwich Islands. Dr. W. H. Jones.

231. (1d) Sandwich Islands. T. Nuttall (Randall's type, damaged).

**A. SCABRA** Leach, 1815.

Habitat. East coast of tropical America.

229. (1d) Mexico. W. Stimpson.

230. (1d) Martinique, Fr. W. I. Guérin Collection.

**CARIDINA** H. Milne-Edwards, 1837.

*Caradina* Kingsley, 1879.

**C. AFRICANA** Kingsley, 1882 (No. 163 type).

Habitat. Zulu-land, South Africa.

163. (xa) Zulu-land, South Africa. S. A. Grout (Kingsley's types).

**C. LONGIROSTRIS** H. Milne-Edwards, 1837.

Habitat. Mediterranean.

233. (1d) Algiers. Guérin Collection.

**C. TYPUS** H. Milne-Edwards, 1837.

*Caradina typus* Kingsley, 1879.

Habitat. Indo-Pacific Region.

232. (1d) Mauritius. Guérin Collection.



**ALPHEIDAE Sp. Bate, 1886.**

ALOPE White, 1847.

A. PALPIPES White, 1847.

Habitat. New Zealand and Australia.

234 (1d) New Zealand. Dr. T. B. Wilson.

ALPHEUS Fabricius, 1878.

including,

*Cryptophthalmus* Rafinesque, 1814.*Asphalius* Roux, 1831.*Dienezia* Westwood, 1835.*Haplopsyche* Saussure, 1857.*Alpheoides* Paulson, 1880.

A. BELLIMANUS Lockington, 1876.

Habitat. Coast of California.

118. (3a) San Diego, California. Joseph Jeans.

A. BREVIROSTRIS (Olivier, 1811).

*Palaemon brevirostris* Olivier, 1811.*Asphalius brevirostris* Roux, 1831.*A. malabaricus* Hilgendorf, 1878.

Habitat. Indo-Pacific region.

245. (3d) Yanaon, French India. Guérin Collection.

246. (1d) Manilla. Dr. Burrough.

A. DENTIPES Guérin, 1832 (No. 239 type).

Habitat. Mediterranean.

239. (1d) Nice, France. Guérin Collection (Guérin's type).

A. DOTO Miers, 1878.

Habitat. Australia.

237. (1d) Australia. Dr. T. B. Wilson.

A. EDWARDSII Audouin, 1810 (?).

? *A. monodon* Bosc. 1801.*A. pacificus* Dana, 1852.*A. edwardsii* var *leviusculus* Dana, 1852.*A. avarus* Sp. Bate, 1887.*A. leviusculus* (Dana, 1852) Sp. Bate, 1887.

Habitat. Tropical seas.

129. (xa) Bermuda. Heilprin Collection, 1888.

135. (1a) No locality. W. N. Lockington.

250. (1d) Australia. Dr. T. B. Wilson.

A. HETEROCHELES Say, 1818 (? No. 240 type).

*A. armillatus* H. Milne-Edwards, 1837.*Haplopsyche lutaria* Saussure, 1857.

*A. lutaria* Saussure, 1858.

*A. bispinosus* Streets, 1872 (No. 134 type).

*A. equidactylus* Lockington, 1877.

Habitat. East coast of America.

133. (2a) Silam, Yucatan. Mexican Expedition, 1890 (*vide* Ives, 1891).

134. (4a) Panama. McNeill Expedition (Streets' types, *A. bispinosus*).

240. (1d) No locality. Thomas Say (probably Say's type—damaged).

241. (2d) No locality. Smithsonian Institution.

242. (2d) No locality. No donor's name.

*A. LAEVIGATUS* Guérin, 1830 (No. 251 type).

Habitat. Pacific region.

251. (5d) Timor. Guérin Collection (Guérin's type—damaged).

*A. LOTTINII* Guérin, 1830 (No. 249 type)<sup>1</sup>.

*A. ventrosus*, H. Milne-Edwards, 1837.

*A. laevis* Randall, 1839 (No. 247 type).

*Alpheoides laevis* Kossmann, 1880.

Habitat. Indo-Pacific.

115. (xa) No locality (probably from S. Pacific). No donor's name.

131. (2a) ? Japan. Smithsonian Institution.

247. (1d) Sandwich Islands. T. Nuttall (Randall's type of *A. laevis*).

249. (1d) Mauritius. Guérin Collection (Guérin's type).

*A. MALLEATOR* Dana, 1852.

Habitat. Brazil.

116 & 243. (1a & 2d). No locality. Smithsonian Institution.

244. (1d) Brazil. Wilkes' Expedition.

*A. MEGACHELES* (Hailstone, 1835).

*Hippolyte rubra* Westwood, 1835 (not *A. ruber* H. Milne-Edwards, 1837).

*Hippolyte megacheles* Hailstone, 1835.

*Dienecia rubra* Westwood, 1835.

*A. edwardsii* H. Milne-Edwards, 1837 (not *A. edwardsii* of Audouin).

*A. affinis* Guise, 1854.

*A. milnei* Guérin, 1857.

*A. platyrhynchus* Heller, 1862.

*Cryptophthalmus ruber* Costa, 1846.

<sup>1</sup>See J. S. Kingsley. Bull. Essex. Inst. Vol. XIV. 1882, p. 113.

Habitat. Seas of Europe.

130. (3a) Villa Franca, France. Dr. B. Sharp, 1882.

A. MINUS Say, 1818.

*A. formosus* Gibbes, 1851.

*A. tridentulatus* Dana, 1852.

*A. sauleyi* Guérin, 1857 (No. 236 type).

*A. minor* Lockington, 1878.

Habitat. East coast of America.

117. (xa) Bermuda. Heilprin Collection, 1888.

236. (1d) Martinique. Guérin Collection (Guérin's type, *A. sauleyi*).

248. (5d) No locality. Smithsonian Institution.

1006\* (1a) Port Antonio, Jamaica. W. J. Fox.

? A. NOVAE-ZELANDIAE Miers, 1876.

Habitat. New Zealand.

252. (2d) New Zealand. No donor's name.

A. POEYI Guérin, 1857 (No. 235 type).

*A. floridianus* Kingsley, 1878.

Habitat. West Indian region.

235. (1d) Cuba. Guérin Collection (Guérin's type).

A. SINUOSUS Guérin, 1857 (No. 388 type).

Habitat. West coast of South America.

388. (1d) Callao, Peru. Guérin Collection (Guérin's type).

A. THETIS Miers, 1875.

Habitat. Pacific region.

238. (2d) New Zealand. Dr. T. B. Wilson (*vide* Kingsley, 1882).

ATHANAS Leach, 1815.

A. NITESCENS Leach, 1815.

*Palaemon nitescens* Leach, 1815.

*Arete diocletiana* Heller, 1862.

*Arete nitescens* Heller, 1863.

Habitat. Seas of Europe.

253. (1d) Coast of France. Guérin Collection.

PANDALIDAE Sp. Bate, 1886.

PANDALUS Leach, 1815.

P. ANNULICORNIS Leach, 1815.

*P. leavigatus* Stimpson, 1854.

*P. montagui* Smith, 1879.

Habitat. Circumpolar and North Atlantic.

139. (3a) Lat. 46°, 23' N.; Long. 52°, 45' W. U. S. Fish Commission, 1885.

140. (xa) Massachusetts Bay. U. S. Fish Commission.  
 141. (xa) Salem, Massachusetts. Dr. T. H. Streets.  
 142. (4a) Halifax, Nova Scotia. Dr. T. H. Streets.  
 255. (2d) Belfast Bay, Ireland. W. Thompson (in exchange).

**P. BOREALIS** Kroeyer, 1838.

Habitat. Circumpolar and North Atlantic.

137. (3a) Salem, Massachusetts, 50 fathoms. Dr. T. H. Streets.  
 138. (4a) Massachusetts Bay, 40-55 fathoms. U. S. Fish Commission.

**P. DANAE** Stimpson, 1854.

Habitat. Northwest coast of America.

144. (3a) Marmot Isle, Alaska (45 fathoms). Dr. W. H. Jones.  
 254. (1d) Coast of Oregon. W. Stimpson.

**P. LEPTOCERUS** Smith, 1881.

Habitat. North Atlantic.

143. (4a) Lat. 41°, 48', 45" N., Long. 65°, 47', 00" W. 85 fathoms; U. S. Fish Commission, 1885.

**P. PROPINQUUS** G. O. Sars, 1869.

Habitat. North Atlantic.

136. (2a) Off Martha's Vineyard, 390 fathoms. U. S. Fish Commission.

**HIPPOLYTIDAE** Sp. Bate, 1886.

**HIPPOLYSMATA** Stimpson, 1860.

**H. WURDEMANNI** (Gibbes, 1850).

*Hippolyte wurdemanni* Gibbes, 1850.

Habitat. Coasts of Florida.

164. (3a) Pt. Pinellas, Tampa Bay, Florida. Heilprin Collection, 1886 (*vide* Ives, 1891).

**HIPPOLYTE** Leach, 1815.

**H. CRANCHII** Leach, 1815.

*Palaemon microramphos* Risso, 1816.

*H. crassicornis* H. Milne-Edwards, 1837.

*H. yarelli* Thompson, 1853.

Habitat. European seas.

258. (2d) Rochelle, France. Guérin Collection.  
 259. (xd) Pembrokeshire, Wales. E. Wilson.

**H. FABRICII** Kroeyer, 1842.

Habitat. North Atlantic.

166. (4a) Salem, Massachusetts. Dr. T. H. Streets.

167 & 264. (4a & 3d) No locality. Smithsonian Institution.

265. (1d) Coast of Massachusetts. Dr. T. H. Streets.

H. GAIMARDII H. Milne-Edwards, 1837.

*H. gibba* Kroeyer, 1842.

Habitat. Circumpolar.

150. (1a) Lat. 46°, 09', 30" N., Long. 49°, 48', 30" W. 39 fathoms;  
U. S. Fish Commission, 1885.

155. (4a) Spitzbergen. Guérin Collection (Guérin mss. type,  
*H. Robertii*).

257. (1d) Maine coast. Dr. J. H. Slack.

H. GIBBEROSUS H. Milne-Edwards, 1837.

*H. gibbosus* Dana, 1852.

Habitat. Pacific region.

165. (1a) Oahu, Sandwich Islands. Dr. W. H. Jones, 1874.

175. (2a) ? South Pacific. No donor's name.

H. GROENLANDICA (J. C. Fabricius, 1775).

*Astacus groenlandica* J. C. Fabricius, 1775.

*Cancer aculeatus* O. Fabricius, 1780.

*Alpheus aculeatus* Sabine, 1821.

*H. aculeata* Owen, 1835.

*H. armata* Owen, 1839.

*H. cornuta* Owen, 1839.

Habitat. Circumpolar.

151. (3a) Marmot Isles, Alaska, 45 fathoms. Dr. W. H. Jones.

152. (1a) No locality. No donor's name.

153. (1a) Godthaab, Greenland. Dr. Hayes' Expedition.

H. LILLJEBORGII Danielssen, 1861.

*H. securifrons* Norman, 1863.

Habitat. North Atlantic.

146. (1a) Lat. 42°, 41', 00" N., Long. 64°, 55', 30" W. 62 fathoms;  
U. S. Fish Commission, 1885.

H. LINEATA Lockington, 1876.

Habitat. Coast of California.

174. (3a) San Diego, California. Joseph Jeans.

H. MARMORATA (Olivier, 1811).

*Palaeon marmoratus* Olivier, 1811.

*Alpheus marmoratus* Lamarck, 1818.

Habitat. Pacific region.

148. (1a) Samoan Islands. J. S. Kingsley (in exchange).

161. (2a) ? South Pacific. No donor's name.

263. (3d) Sandwich Islands. T. Nuttall.

H. MACILENTA Kroeyer, 1840.

Habitat. North Atlantic.

171. (1a) Lat. 47°, 21', 00" N., Long. 51°, 38', 30" W. 81 fathoms;  
U. S. Fish Commission, 1885.

172. (2a) No locality. Dr. T. H. Streets.

256. (3d) Halifax, Nova Scotia. Dr. T. H. Streets.

H. PHIPPSII Kroeyer, 1840.

*H. turgida* Kroeyer, 1840.

*H. ochotensis* Brandt, 1849.

*H. vibrans* Stimpson, 1871.

Habitat. Circumpolar and North Atlantic.

147. (1a) Cape Cod, Mass, 90 fathoms. U. S. Fish Commission.

266. (2d) Salem, Mass. Dr. T. H. Streets.

H. POLARIS (Sabine, 1821).

*Alpheus polaris* Sabine, 1821.

Habitat. Circumpolar and North Atlantic.

154. (3a) Salem, Mass. Dr. T. H. Streets.

260. (1d) Arctic Ocean. No donor's name.

H. PRIONOTA Stimpson, 1864.

Habitat. North Pacific.

393. (2a) Marmot Isles, Alaska, 45 fathoms. Dr. W. H. Jones.

H. PUSIOLA Kroeyer, 1842.

Habitat. North Atlantic.

149 & 262. (2a & 4d) No locality. Smithsonian Institution.

261. (1d) Halifax, Nova Scotia. Dr. T. H. Streets.

H. TAYLORI Stimpson, 1857.

Habitat. Pacific coast of United States.

173. (3a) Santa Cruz, California. J. S. Kingsley (in exchange).

**LYSMATA** Risso, 1826.

*Melicerta* Risso, 1816 (name preoccupied).

L. SETICAUDA (Risso, 1816).

*Melicerta seticauda* Risso, 1816.

Habitat. Mediterranean, Japan, Amboina.

271. (2d) Nice, France. Guérin Collection.

**SPIRONTOCARIS** Sp. Bate, 1887.

S. SPINUS (Sowerby, 1806).

*Cancer spinus* Sowerby, 1806.

- Alpheus spinus* Leach, 1815.  
*Hippolyte sowerbaei* Leach, 1815.  
*Hippolyte spinus* Owen, 1835.

Habitat. North Atlantic.

- 156 & 267. (6a & 1d) No locality. Smithsonian Institution.  
 157. (8a) Salem, Mass. Dr. T. H. Streets.  
 158. (7a) Coast of Maine, Dr. J. H. Slack.  
 159. (1a) Bay of Fundy, 10-20 fathoms. U. S. Fish Commission.  
 160. (8a) Marmot Isle, Alaska, 45 fathoms. Dr. W. H. Jones.

**VIRBIUS** Stimpson, 1860.

- V. VARIANS (Leach, 1815).  
*Hippolyte varians* Leach, 1815.  
*Hippolyte smaragdina* Kroeyer, 1842.

Habitat. European seas.

268. (7d) France. Guérin Collection.

- V. VIRIDIS (Otto, 1828).  
*Alpheus viridis* Otto, 1828.  
*Hippolyte brullei* Guérin (No. 269 type).  
*Hippolyte viridis* H. Milne-Edwards, 1837.  
*Hippolyte mauritanicus* Lucas, 1849.  
*V. brullei* Czerniawsky, 1884.

Habitat. Mediterranean and Black Sea.

269. (1d) Coast of Morea. Guérin Collection (Guérin's type of *H. brullei*).

**RHINOCOCYNETIDAE** Ortman, 1890.

**RHINOCOCYNETES** H. Milne-Edwards, 1837.

- R. TYPUS H. Milne-Edwards, 1837.

Habitat. Indo-Pacific and Red Sea.

168. (2a) Red Sea. Guérin Collection.  
 169. (4a) No locality. Smithsonian Institution.  
 170. (2a) Chili. Wilkes' Expedition.  
 270. (2d) Chili. Dr. T. B. Wilson.  
 272. (1d) New Zealand. Dr. T. B. Wilson.

**PONTONIIDAE** Sp. Bate, 1887.

**ANCHISTIA** Dana, 1852.

- A GRANDIS Stimpson, 1860.

Habitat. Coast of China.

176. (xa) No locality. No donor's name.

**PONTONIA** Latreille, 1829.*Conchodytes* Peters, 1852.**P. ARMATA** H. Milne-Edwards, 1837.

Habitat. New Ireland and Cuba.

344. (1d) Cuba. Guérin Collection.

**P. CUSTOS** (Forskael, 1775).*Cancer custos* Forskael, 1775.*Astacus tyrrhenus* Petagna, 1792.*Alpheus tyrrhenus* Risso, 1816.*Gnathophyllum tyrrhenus* Desmarest, 1825.*P. tyrrhena* Latreille, 1825.*Callinassa tyrrhenus* Risso, 1826.*Alpheus pinnoplax* Otto, 1828.

Habitat. Mediterranean.

177. (xa) Greece. Guérin Collection.

**TYPTON** Costa, 1844.*Pontonella* Heller, 1856.**T. SPONGICOLA** Costa, 1844.*Pontonella glabra* Heller, 1856.*T. spongiosus* Sp. Bate, 1868.

Habitat. Mediterranean.

178. (1a) Villa Franca, France. Dr. B. Sharp, 1882.

**HYMENOCERIDAE** Ortmann, 1890.**HYMENOCERA** Latreille, 1829.**H. LATREILLII** Guérin (No. 367 type).

Habitat. Indian region.

367. (1d) Agalega, Seychelles. Guérin Collection (type).

**PALAEEMONIDAE** Sp. Bate, 1887.**BITHYNIS** Philippi, 1860.**P. GAUDICHAUDII** (Olivier, 1791).*Palaemon gaudichaudii* Olivier, 1791.*Palaemon coementarus* Poepig, 1836.*Bithynis longimana* Philippi, 1860.*Macrobrachium africanum* Sp. Bate, 1868.

Habitat. Rivers of Chili and Peru.

98. (1a) Chili. Guérin Collection.

359. (1d) Peru. Dr. W. S. W. Ruschenberger.

**LEANDER** Desmarest, 1849.**L. ADSPERSUS** (Rathke, 1837).*Palaemon adpersus* Rathke, 1837.



- Palaemon squilla* (part) H. Milne-Edwards, 1837.  
*Palaemon fabricii* Rathke, 1843.  
*Palaemon rectirostris* Zaddach, 1844.  
*Palaemon leachii* Bell, 1853.  
*L. rectirostris* Heller, 1863.

Habitat. European seas.

128. (1a) Liberia. No donor's name.

L. DEBILIS Dana, 1852.

Habitat. Indo-Pacific.

395. (xa) Oahu, Sandwich Islands. Smithsonian Institution.

L. NATATOR (H. Milne-Edwards, 1837).

- Palaemon natator* H. Milne-Edwards, 1837.  
*Palaemon latirostris* DeHaan, 1849.  
*L. erraticus* Desmarest, 1849.  
*Palaemon tenuirostris* (Say) Carus, 1884.

Habitat. On weed in all seas.

126. (xa) Lat. 23°, 53' N.; Long. 53°, 06' W. Dr. W. H. Jones.

132. (xa) Lat. 24°, 26' N.; Long. 34°, 32' W. Dr. W. H. Jones.

345. (2d) Atlantic Ocean. Guérin Collection.

346. (2d) Antilles. Guérin Collection.

L. SERRATUS (Pennant, 1777.)

- Astacus serratus* Pennant, 1777.  
*Cancer squilla* Herbst, 1796.  
*Palaemon serratus* Fabricius, 1798.  
*Palaemon squilla* Latreille, 1806.

Habitat. European seas.

119. (xa) British. No donor's name.

120. (3a) No locality. Guérin Collection.

348. (3d) Wales. E. Wilson.

349. (1d) Coast of France. Guérin Collection.

L. SQUILLA (Linnaeus, 1758).

- Cancer squilla* Linnaeus, 1758.  
*Astacus squilla* Petagna, 1792.  
*Palaemon squilla* Fabricius, 1793.  
*Palaemon antennarius* H. Milne-Edwards, 1837 (part).

Habitat. Mediterranean.

- 127 & 398. (2a & 1a) Algiers. Guérin Collection.

L. XIPHIAS (Risso, 1816).

- Palaemon xiphias* Risso, 1816.  
*Palaemon crenulatus* Risso, 1826.

Habitat. Mediterranean.

350. (1d) Nice, France. Guérin Collection.

**NEMATOCARCINUS A.** Milne-Edwards, 1881.

*Eumiersia* S. I. Smith, 1882.

**N. CURSOR A.** Milne-Edwards, 1881.

Habitat. Deep water of the Atlantic.

87. (1a) Martha's Vineyard, 551 fathoms. U. S. Fish Commission, 1885.

**N. ENSIFERUS** (S. I. Smith, 1882).

*Eumiersia ensifera* S. I., Smith, 1882.

Habitat. Deep water of Atlantic.

88. (2a) Martha's Vineyard, 1168 fathoms. U. S. Fish Commission, 1884.

**OPLOPHORUS H.** Milne-Edwards, 1837.

*Xiphocaris* Martens, 1872.

**O. ELONGATUS** (Guérin, 1856).

*Hippolyte elongata* Guérin, 1856.

*O. americanus* Saussure, 1858.

*Xiphocaris elongata* Martens, 1872.

Habitat. West Indies.

396. (2a) San Domingo, West Indies. W. M. Gabb.

**PALAEEMON** Fabricius, 1798.

**P. ACANTHURUS** Wiegmann, 1836.

*P. forceps* H. Milne-Edwards, 1837.

*Bithynis forceps* Sp. Bate, 1887.

Habitat. East coast of tropical America.

82. (2a) San Domingo, West Indies. W. M. Gabb.

83. (1a) St. Martin, West Indies. Dr. J. Van Rijgersma.

84 & 85. (xa & 1a) Panama. McNeil Expedition.

**P. ACUTIROSTRIS** Dana, 1852.

Habitat. Pacific region.

124. (xa) Sandwich Islands. No donor's name.

**P. AFRICANUS** Kingsley, 1882 (No. 81 type).

Habitat. West Africa.

81. (3a) West Africa. P. DuChaillu (Kingsley's type).

**P. CARCINUS** (Linnaeus, 1758.)

*Cancer carcinus* Linnaeus, 1758.

*Astacus carcinus* Fabricius, 1793.

*Bithynis carcinus* Sp. Bate, 1887.

Habitat. Indo-Pacific region.

347. (1d) Bombay. Guérin Collection (mss. type of *P. whitei* Guérin.)

358. (1d) Hoogley River, India. Dr. Harlan.

**P. FAUSTINUS** Saussure, 1858.

Habitat. Rivers of the West Indian region.

122. (6a) Vera Cruz, Mexico. No donor's name.

**P. FLUVIATILIS** Streets, 1871 (No. 114 type).

Habitat. Rivers of Mexico.

114. (2a) Tehautepec. No donor's name (Streets' type).

**P. GRACILIMANUS** Randall, 1839 (No. 125 type).

Habitat. Sandwich Islands.

125. (1a) Sandwich Islands. Nuttall and Townsend (Randall's type).

**P. GRANDIMANUS** Randall, 1839 (No. 123 type).

*Bithynis grandimanus* Sp. Bate, 1887.

Habitat. Sandwich Islands.

123. (2a) Sandwich Islands. J. K. Townsend (Randall's type).

**P. HIRTIMANUS** Olivier, 1811.

*P. latimanus* De Man, 1887.

*Bithynis hirtimanus* Sp. Bate, 1887.

Habitat. Indo-Pacific region.

99. (2a) Mauritius. Guérin Collection.

**P. JAMAICENSIS** Olivier, 1811.

*Astacus fluviatilis* Sloane, 1725, (not binominal).

*P. carcinus* Leach, 1815.

*P. brachydactylus* Wiegmann, 1836.

*P. punctatus* Randall, 1839 (No. 90 type).

*P. aztecus* Saussure, 1858.

*Macrobrachium americanum* Sp. Bate, 1868.

*Bithynis jamaicensis* Sp. Bate, 1887.

Habitat. West Indies.

90. (1a) No locality. No donor's name (Randall's type of *P. punctatus*).

91. (7a) St. Martin, West Indies. Dr. J. Van Rijgersma.

92. (1a) Cuba, West Indies. Dr. T. B. Wilson.

93. (1a) Guatemala. W. S. Vaux.

94. (8a) San Domingo. W. M. Gabb.  
 95. (4a) No locality. Smithsonian Institution.  
 287. (1d) Brazil. Dr. T. B. Wilson.  
 356. (1d) Cuba, West Indies. Dr. Spackman.  
 357. (1d) No locality. No donor's name.  
 1001. (2a) Kingston, Jamaica. W. J. Fox, 1891.
- P. LAR** Fabricius, 1798.  
*P. longimanus* Fabricius, 1798.  
*P. ornatus* Olivier, 1811.  
*P. vagus* Heller, 1862.  
*P. equidens* Heller, 1862.  
*P. reunionensis* Hoffman, 1874.  
*P. mayottensis* Hoffman, 1874.  
*P. madagascarensis* Hoffman, 1874.  
*Bithynis ornatus* Sp. Bate, 1887.  
*Bithynis lar* Sp. Bate, 1887.  
*P. ornatus* var *vagus* De Man, 1891.
- Habitat.** Indo-Pacific region.  
 97. (4a) Navigator Islands. Dr. W. S. W. Ruschenberger.  
 353 & 355. (1d & 1d) Mauritius. Guérin Collection.  
 96 & 181. (8a & 1a). No locality. No donor's name.
- P. MEXICANUS** Saussure, 1858.  
*P. dasydactylus* Streets, 1871 (No. 89 type).  
*P. sexdentatus* Streets, 1871 (No. 113 type).
- Habitat.** Rivers of Mexico and West Indies.  
 89. (2a) Coatzacoalcos River, Mexico. No donor's name (Streets' type of *P. dasydactylus*).  
 113. (3a) Coatzacoalcos River, Mexico. No donor's name (Streets' type of *P. sexdentatus*).
- P. OHIOENSIS** S. I. Smith, 1874.  
*P. sallei* Guérin, mss. (No. 86 type).
- Habitat.** Ohio and Mississippi Rivers.  
 80. (xa) Vicksburg, Mississippi. L. C. Rice.  
 86. (2a) Mississippi River. Guérin Collection (Guérin's mss. type).
- P. OLFERSII** Wiegmann, 1836.  
*P. spinimanus* H. Milne-Edwards, 1837.  
*Bithynis spinimanus* Sp. Bate, 1887.  
*P. cubanus* Guérin, mss. (No. 182 type).
- Habitat.** Rivers of tropical America and of West Africa.  
 121. (1a) No locality. No donor's name.

182. (1a) Cuba, Guérin Collection (Guérin's mss. type of *P. cubanus*).

354. (1d) Brazil. No donor's name.

**PALAEMONELLA Dana, 1852.**

*P. YUCATANICA* Ives, 1891 (No. 389 type).

Habitat. East coast of Mexico.

389. (1a) Progreso, Yucatan. Mexican Expedition, 1890 (Ives' type.)

**PALAEMONETES Heller, 1869.**

*P. PALUDOSA* (Gibbes, 1851).

*Hippolyte paludosa* Gibbes, 1851.

*P. exilipes* Stimpson, 1871.

Habitat. East coast of United States.

352. (4d) Wyandotte Cave, Indiana. E. D. Cope.

390. (1a) Caloosahatche River, Florida. Heilprin Collection 1886 (fide Ives, *P. exilipes*, 1891.).

391. (4a) Lake Hikpoche (canal), Florida. Heilprin Collection 1886 (fide Ives, *P. exilipes*, 1891.).

392. (8a) Lake Okeechobe, Florida. Heilprin Collection 1886 (fide Ives, *P. exilipes*, 1891.).

*P. VARIANS* (Leach, 1815).

*Palaemon varians* Leach, 1815.

*Palaemon antennarius* H. Milne-Edwards, 1837 (part).

*Palaemon lacustris* Martens, 1857.

*Pelias migratorius* Heller, 1862.

*Anchistia migratorius* Heller, 1863.

*Leander antennarius* Czernaiwsky, 1884.

Habitat. Seas of Europe.

351. (3d) France. Guérin Collection.

*P. VULGARIS* (Say, 1818).

*Palaemon vulgaris* Say, 1818.

Habitat. East coast of United States.

179. (5a) Greenport, Long Island. Smithsonian Institution.

180. (xa) No locality. No donor's name.

1028. (xa) Beasley's Point, New Jersey. Dr. B. Sharp, 1893.

1029. (xa) Nantucket, Massachusetts. Dr. B. Sharp, 1893.

**NIKIDAE, Sp. Bate, 1887.**

**PROCESSA** Leach, 1815.

*Nika* Risso, 1816.

*Nica* Stimpson, 1860.

**P. CANALICULATUS** Leach, 1815.*Nika edulis* Risso, 1816, and authors.*Nika variegata* Risso, 1816.*Nika canaliculata* Desmarest, 1825.*Nica edulis* Stimpson, 1860.

Habitat. Seas of Europe.

273. (1d) Nice, France. Guérin Collection.

368. (7a) Nice, France. Guérin Collection.

**CRANGONIDAE** Sp. Bate, 1887.**CRANGON** Fabricius, 1798.**C. CRANGON** (Linnaeus, 1758.)*Cancer crangon* Linnaeus, 1758.*Squilla cinerea* Klein, 1754 (not binomial).*Astacus crangon* Herbst, 1796.*C. vulgaris* Fabricius, 1798, and authors.*C. rufopunctatus* Risso, 1816.*C. septemspinus* Say, 1818.

Habitat. All seas.

274 &amp; 370. (1d &amp; xa). Mediterranean. Guérin Collection.

275. (2d) Pembrokeshire, Wales. E. Wilson.

276. (1d) England. E. Wilson.

277. (1d) Belfast Bay, Ireland. W. Thompson (in exchange).

278. (2d) California. W. Stimpson.

279. (3d) Salem, Massachusetts. Dr. T. H. Streets.

280 &amp; 372. (2d &amp; 6a) No locality. Smithsonian Institution.

369. (8a) No locality. No donor's name.

371. (7a) Beasley's Point. New Jersey. S. Ashmead.

397. (3a) Coast of Massachusetts. U. S. Fish Commission.

**C. FRANCISCORUM** Stimpson, 1856.

Habitat. Coast of California.

373. (9a) San Francisco, California. W. Stimpson.

374. (2a) No locality. Smithsonian Institution.

375. (xa) San Francisco. California. E. H. Kelly.

**C. TENUIFRONS** Kingsley, 1882 (No. 377 type).

Habitat. Alaska.

377. (2a) Marmot Isles, Alaska, 45 fathoms. Dr. W. H. Jones  
(Kingsley's type).**EGEON** Risso, 1816.*Aegeon* Kinahan, 1862.**E. CATAPHRACTUS** (Olivi, 1792).*Cancer cataphractus* Olivi, 1792.

*E. loricatus* Risso, 1816.

*Crangon cataptractus* H. Milne-Edwards, 1837.

*Crangon cataphractus* Heller, 1863.

Habitat. European seas.

282. (1d) Algiers. Guérin Collection.

E. FASCIATUS (Risso, 1816.)

*Crangon fasciatus* Risso, 1816.

*Aegeon fasciatus* Kinahan, 1862.

Habitat. European seas.

281. (4d) Mediterranean. Guérin Collection.

**NECTOCRANGON Brandt, 1852.**

*Argis* Kroeyer, 1841 (name preoccupied).

N. ALASKENSIS Kingsley, 1878 (No. 384 type).

Habitat. Alaska.

384. (1a) Marmot Isle, Alaska, 45 fathoms, Dr. W. H. Jones  
(Kingsley's type).

N. LAR (Owen, 1839.)

*Crangon lar* Owen, 1839.

*Argis lar* Kroeyer, 1843.

Habitat. Arctic seas and North Atlantic.

382. (1a) Newfoundland. Guérin Collection.

383. (3a) Halifax, Nova Scotia. Dr. T. H. Streets.

**PARACRANGON Dana, 1852.**

P. ECHINATUS Dana, 1852.

Habitat. Northwest coast of America.

387. (2a) Marmot Isle, Alaska, 45 fathoms. Dr. W. H. Jones.

**PONTOPHILUS Leach, 1815.**

P. NORVEGICUS (M. Sars, 1861.)

*Crangon norvegicus* M. Sars 1861.

Habitat. North Atlantic.

385. (2a) Lat. 43°, 32' N., Long. 59°, 22' W. 110 fathoms  
U. S. Fish Commission.

P. SPINOSUS Leach, 1815.

*Crangon cataphractus* Olivi, 1792 (part).

*Crangon spinosus* Lamarek, 1818.

*Cheraphilus spinosus* Kinahan, 1862.

Habitat. European seas.

283. (2d) Mediterranean. Guérin Collection.

**SABINEA** Owen, 1835.**S. SEPTEMCARINATA** (Sabine, 1824).*Crangon septemcarinata*. Sabine, 1824.

Habitat. Arctic seas and North Atlantic.

284. (1d) No locality. Smithsonian Institution.

386. (4a) Off Salem, Massachusetts, 35 fathoms. Dr. T. H. Streets.

**SCLEROCRANGON** G. O. Sars, 1885.**S. BOREAS** (Phipps, 1774).*Cancer boreas* Phipps, 1774.*Cancer homaroides* O. Fabricius, 1780.*Astacus boreas* Olivier, 1791.*Crangon boreas* Fabricius, 1798.*Cheraphilus boreas* Miers, 1877.

Habitat. Arctic seas and North Atlantic.

285. (1d) Lat. 66° North, 40 fathoms. No donor's name.

378. (2a) Halifax, Nova Scotia. Dr. T. H. Streets.

379. (5a) Spitzbergen. Guérin Collection.

380. (2a) Smithsonian Institution. No locality.

381. (1a) McCormick Bay. West Greenland Expedition, 1891.

**S. SALEBROSUS** (Owen, 1839).*Crangon salebrosus* Owen, 1839.

Habitat. Arctic seas.

376. (1a) No locality. Smithsonian Institution.

**GNATHOPHYLLIDAE** Ortmann, 1890.**DRIMO** Risso, 1826.*Gnathophyllum* Latreille, 1829.**D. ELEGANS** (Risso, 1816).*Alpheus elegans* Risso, 1816.*Gnathophyllum elegans* Latreille, 1829, and authors.

Habitat. Mediterranean.

286. (5d) Oran, Algiers. Guérin Collection.

## SUMMARY.

Stomatopoda, genera, 4 species	17 (var 0) types	1 doubtful types	1.
Peneidea,	“ 3 “ 15 ( “ 1) “ 3	“ “	1.
Eucyphidea,	“ 33 “ 96 ( “ 0) “ 12	“ “	1.
Total	“ 40 “ 128 ( “ 1) “ 16	“ “	3.